Anti-Capsid protein VP3 [VHH-7A] Standard Size Ab01240-10.9

This chimeric human antibody was made using a variable domain sequence of the original VHH format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1-Fc fusion
Clone Number: VHH-7A
Alternative Name(s) of Target:
UniProt Accession Number of Target Protein:
Published Application(s): cryo EM, ELISA
Published Species Reactivity: Poliovirus
Immunogen: The VHH-7a was generated by immunizing a dromedary with poliovirus type I Sabin strain, preparing cDNA libraries from lymphocytes, and then selecting for tight poliovirus binders by phage display.
Specificity: VHH-7a binds to a site on the top surface of the expanded poliovirion capsid protein VP3. VHH-7a does not bind to the native, unexpanded virus.
Application Notes: ELISA was used to show the reactivity of VHH-7a for poliovirus (Thys et al, 2010). The interaction of VHH-7a with capsid protein VP3 has been captured using cryo electron microscopy (Strauss et al, 2017).
Antibody First Published in: Thys et al, 2010. In vitro antiviral activity of single domain antibody fragments against poliovirus Antiviral Res. 2010 Aug;87(2):257-64 PMID:20566349
Note on publication: Describes the generation of VHH-7a from a phage display library and its characterisation using ELISA.

Product Form

Size: 200 µg Purified antibody.
Purification: Purified by Immobilized Metal Affinity Chromatography
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4^{o}C for up to 3 months. For longer storage, aliquot and store at -20^{o}C.
Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic

procedures for humans or animals.